

What is claimed is:

1 A mobile communications system wherein mobile communications of a user terminal is controlled, said system comprising:

5 a communication limiter for limiting communications of said user terminal in accordance with a location of said user terminal;

said user terminal having a disconnection processor for disconnecting communications of said user terminal based on instructions from said communication limiter.

10 2 The system defined in Claim 1, wherein said user terminal comprises:

a location detector for detecting a current location of said user terminal; and

15 means for notifying said communication limiter of data about the current location of said user terminal detected by said location detector.

20 3 The system defined in Claim 2, wherein said communication limiter comprises:

a use prohibition area registration table for recording location data about a location within a use prohibition area where communications of said user terminal is not allowed;

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a location information management table for recording data about a current location of said user terminal, notified from said user terminal; and

a terminal location manager for detecting said user terminal within said use prohibition area based on data on said use prohibition area registration table and based on data on said location information management table, and controlling such that said user terminal does not communicate within said use prohibition area.

4 The system defined in Claim 3, wherein when said user terminal currently in a busy state is detected within said use prohibition area, said communication limiter instructs said disconnection processor in said user terminal to disconnect communications and wherein when receiving a communication disconnection instruction from said communication limiter in a busy state, said disconnection processor disconnects communications of said user terminal.

5 The system defined in Claim 4, wherein when it is detected that said user terminal currently in a busy state is approaching said use prohibition area, said communication limiter notifies said user terminal of the fact and wherein said disconnection processor urges a user to disconnect communications by issuing an alarm when said

communication limiter notifies, in a busy state, said disconnection processor that said user is approaching said use prohibition area.

5 6 The system defined in Claim 4, wherein when a user terminal currently within said use prohibition area originates a call to another communication terminal, said communication limiter notifies said user terminal that said user terminal is within said use prohibition area,
10 without connecting said call origination.

7 The system defined in Claim 4, wherein when a user terminal currently within said use prohibition area originates a call to another communication terminal, said
15 communication limiter notifies said communication terminal, or a call originator, that said user terminal, or a communication destination, is within said use prohibition area, without connecting said call origination.

20 8 The system defined in Claim 2, wherein said location detector detects a current location of said user terminal, using a global positioning system (GPS).

9 The system defined in Claim 1, wherein the function of
25 said communication limiter is integrated within a home

location register (HLR).

10 A home location register (HLR) in a mobile communications system, comprises:

5 means for limiting communications of a user terminal in accordance with a location of said user terminal.

11 The home location register defined in Claim 10, further comprising:

10 means for receiving data about a current location of said user terminal;

a use prohibition area registration table for recording location data about a location within a use prohibition area where communications of said user terminal is not allowed;

15 a location information management table for recording data about a current location of said user terminal, notified from said user terminal; and

20 a terminal location manager for detecting said user terminal within said use prohibition area based on data on said use prohibition area registration table and based on data on said location information management table, and controlling such that said user terminal does not communicate within said use prohibition area.

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12 The home location register defined in Claim 11,
wherein when said user terminal currently in a busy state
is detected within said use prohibition area, said
disconnection processor in said user terminal is
5 instructed to disconnect communications.

13 The home location register defined in Claim 12,
wherein when it is detected that said user terminal
currently in a busy state is approaching said use
10 prohibition area, said user terminal is notified of the
fact.

14 The home location register defined in Claim 12,
wherein when a user terminal currently within said use
15 prohibition area originates a call to another
communication terminal, said user terminal is notified
that said user terminal is within said use prohibition
area, without connecting said call origination.

20 15 The home location register defined in Claim 12,
wherein when a user terminal currently within said use
prohibition area originates a call to another
communication terminal, said communication terminal, or a
call originator, is notified that said user terminal, or a
25 communication destination, is within said use prohibition

area, without connecting said call origination.

16 A mobile communication control method wherein mobile communications of a user terminal are controlled, said method comprising the step of:

limiting communications of a user terminal in accordance with a location of said user terminal.

17 The method defined in Claim 16, further comprising the steps of:

receiving data about a current location of said user terminal;

referring to a use prohibition area registration table for recording location data about a location within a use prohibition area where communications of said user terminal is not allowed;

referring to a location information management table for recording data about a current location of said user terminal; and

performing a terminal location management wherein said user terminal within said use prohibition area is detected based on data on said use prohibition area registration table and based on data on said location information management table, and control is made such that said user terminal does not communicate within said use prohibition

area.

18 The method defined in Claim 17, further comprising the
step of instructing, when said user terminal currently in
5 a busy state is detected within said use prohibition area,
said disconnection processor in said user terminal to
disconnect communications.

19 The method defined in Claim 18, further comprising the
10 step of notifying, when it is detected that said user
terminal currently in a busy state is approaching said use
prohibition area, said user terminal of the fact.

20 The method defined in Claim 18, further comprising the
15 step of notifying, when a user terminal currently within
said use prohibition area originates a call to another
communication terminal, said user terminal that said user
terminal is within said use prohibition area, without
connecting said call origination.

21 The method defined in Claim 18, further comprising the
20 step of notifying, when a user terminal currently within
said use prohibition area originates a call to another
communication terminal, said communication terminal, or a
25 call originator, that said user terminal, or a

communication destination, is within said use prohibition area, without connecting said call origination.

5 22 A communication control program that controls mobile communications of a user terminal by controlling a computer, said program executing the process of limiting communications of a user terminal in accordance with a location of said user terminal.

10 23 The program defined in Claim 22, further comprising the steps of:

receiving data about a current location of said user terminal;

15 referring to a use prohibition area registration table for recording location data about a location within a use prohibition area where communications of said user terminal is not allowed;

20 referring to a location information management table for recording data about a current location of said user terminal; and

25 performing a terminal location management wherein said user terminal within said use prohibition area is detected based on data on said use prohibition area registration table and based on data on said location information management table, and control is made such that said user

terminal does not communicate within said use prohibition area.

24 The program defined in Claim 23, further comprising
5 the step of instructing, when said user terminal currently
in a busy state is detected within said use prohibition
area, said disconnection processor in said user terminal
to disconnect communications.

25 The program defined in Claim 24, further comprising
10 the step of notifying, when it is detected that said user
terminal currently in a busy state is approaching said use
prohibition area, said user terminal of the fact.

26 The program defined in Claim 24, further comprising
15 the step of notifying, when a user terminal currently
within said use prohibition area originates a call to
another communication terminal, said user terminal that
said user terminal is within said use prohibition area,
20 without connecting said call origination.

27 The program defined in Claim 24, further comprising
the step of notifying, when a user terminal currently
within said use prohibition area originates a call to
25 another communication terminal, said communication

terminal, or a call originator, that said user terminal,
or a communication destination, is within said use
prohibition area, without connecting said call origination.

5 28 A portable communications terminal for mobile
communications, comprising:

 a disconnection processor for disconnecting
communications based on instructions from a communication
limiter;

10 said limiter limiting communications of said portable
communications terminal in accordance with a location of
said portable communications terminal.

29 The terminal defined in Claim 28, further comprising:

15 a location detector for detecting a current location
of said portable communications terminal; and

 means for notifying said communication limiter of data
about the current location of said communications terminal
detected by said location detector.

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30 The terminal defined in Claim 29, wherein said
disconnection processor urges a user to disconnect
communications by issuing an alarm when said disconnection
processor receives the notice that said terminal is
25 currently approaching said use prohibition area, from said

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communication limiter in a busy state.

31 The terminal defined in Claim 29, wherein said
location detector detects a current location of said
personal communication terminal, using a global
positioning system (GPS).

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